Installation manual
Tumble dryer
T4900, T41200

487 05 46 61.00
EN

Safety instructions

This machine is only intended for drying water-washed garments.

Clothes that have been cleaned with chemicals/flammable liquids, must NOT be dried in the machine.

Remove clothes from the dryer as soon as they are dry. This prevents them from becoming creased, and reduces the risk of spontaneous ignition.

The machine must not be used for drying foam rubber or foam-like materials.

The machine must not be used for drying floor mops*.

The machine must not be used by minors.

The machine must not be hosed down with water.

The machine must not be installed or stored in an area where it will be exposed to water and/or weather.

Mechanical, electrical and gas installations and service must only be carried out by qualified personnel.

Report machine malfunctions to qualified service personnel as soon as possible. This is important for your own safety and for the safety of others.

Gas dryers only:

The machine is not to be installed in rooms containing cleaning machines with perchloroethylene, TRICHLOROETHYLENE or CHLOROFLUOROCONTAINING HYDROCARBONS as cleaning agents.

What to do if you smell gas:

Do not try to light any appliance.

Do not touch any electrical switch; do not use any phone in your building.

Evacuate the room, building or area.

Contact the laundry manager.

*Applies only to floor mops containing polypropylene.

The dryer must not be installed behind a lockable door or a sliding door. In the rooms where the dryer is to be installed the door hinges must be on the outer side.

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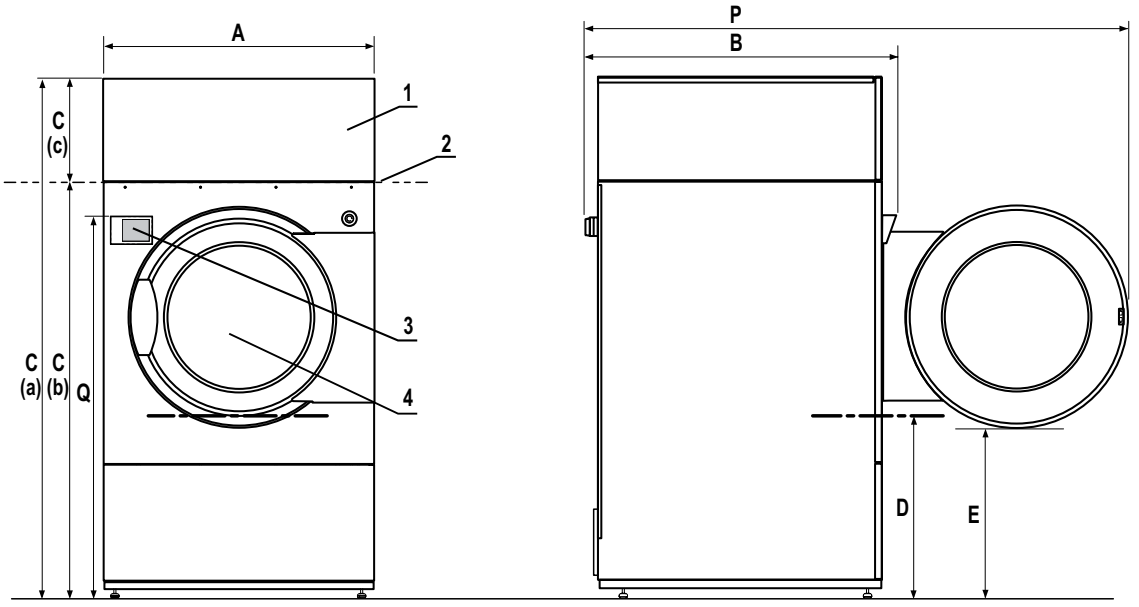
The manufacturer reserves the right to modify design and material specifications without notice.

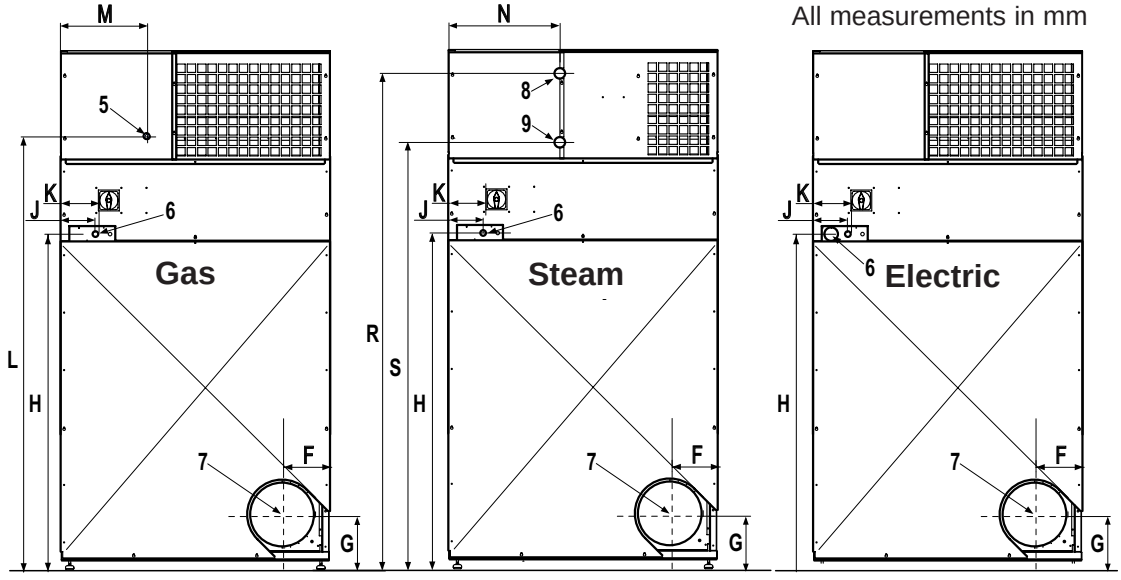
Dimension sketch. Dryer with standard loading door

1	Heating unit	**5**	Gas connection
2	Delivery height excl. 100 mm packaging	**6**	Electric connection
		7	Exhaust duct
3	Operating panel	**8**	Steam inlet
4	Door opening, Ø 940 mm	**9**	Steam return

	A	B	C(a)	C(b)	C(c)	D	E	F	G	H
4900	**1290**	**1307**	**2465**	**1965**	**500**	**850**	**790**	**230**	**245**	**1590**
41200	**1290**	**1497**	**2465**	**1965**	**500**	**850**	**790**	**230**	**245**	**1590**
	J	**K**	**L**	**M**	**N**	**P**	**Q**	**R**	**S**	**T**
4900	**165**	**180**	**2055**	**410**	**530**	**2400**	**1868**	**2350**	**2060**	
41200	**165**	**180**	**2055**	**410**	**530**	**2590**	**1868**	**2350**	**2060**	



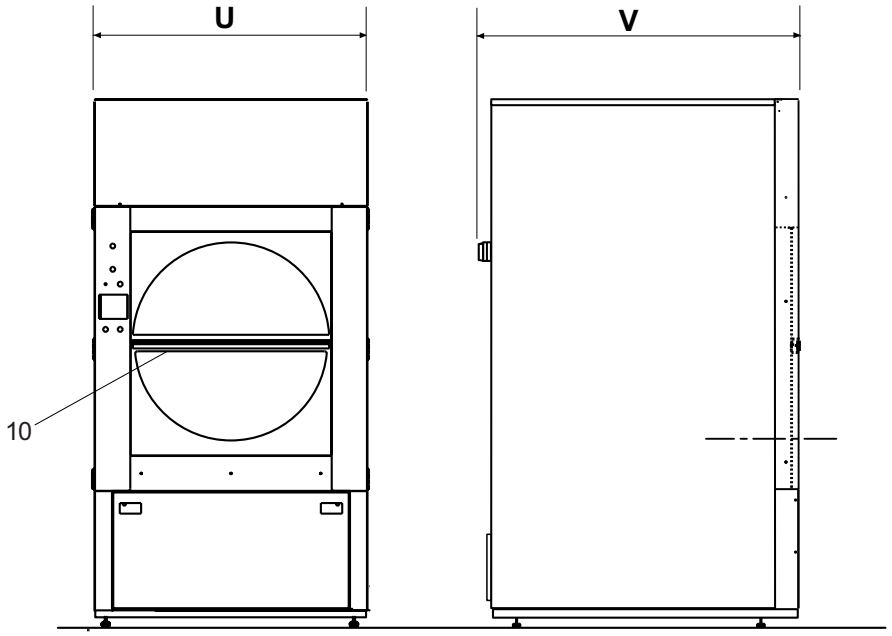
All measurements in mm



Dimension sketch. Dryer with Sliding Door

10	Sliding Door Door opening Ø 940	Where nothing else is mentioned the dimension sketch applies to “Dryer with standard loading door” All measurements in mm

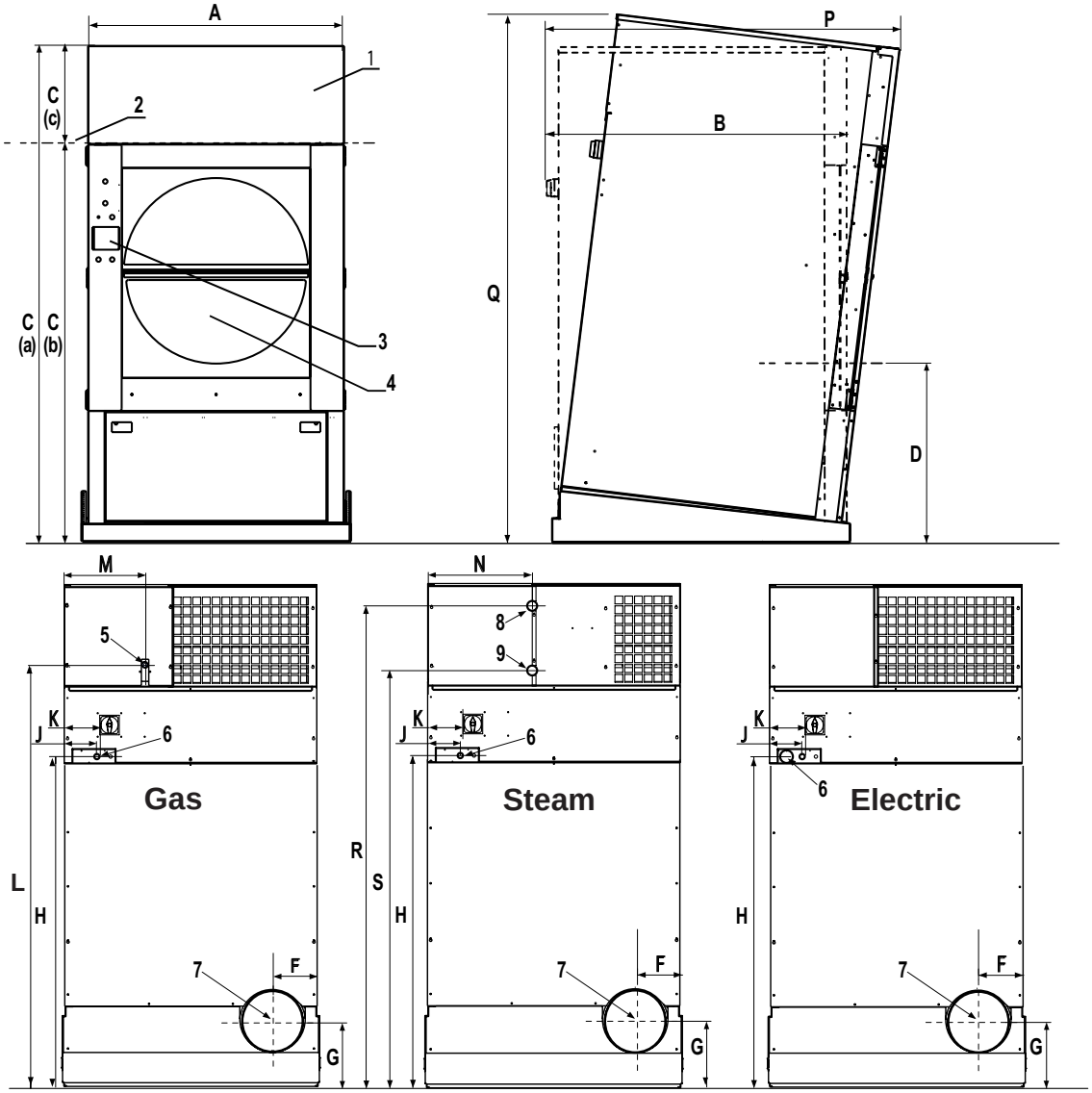
	U	V								
4900	**1314**	**1270**								
41200	**1314**	**1460**								



Dimension sketch. Dryer with Sliding Door and tilt

1	Heating unit	**5**	Gas connection
2	Delivery height excl. 100 mm packaging	**6**	Electric connection
		7	Exhaust duct
3	Operating panel	**8**	Steam inlet
4	Door opening, Ø 940 mm	**9**	Steam return

	A	B	C(a)	C(b)	C(c)	D	E	F	G	H
4900	1314	1270	2545	2045	500	930		230	330	1670
41200	1314	1460	2545	2045	500	930		230	330	1670
	J	**K**	**L**	**M**	**N**	**P**	**Q**	**R**	**S**	
4900	165	180	2130	410	530	1540	2660	2425	2130	
41200	165	180	2130	410	530	1740	2680	2425	2130	



Technical data - type T4900

Heating		Gas	Steam	Electric
Cylinder volume:		900 litres	900 litres	900 litres
Weight net:	Basic machine	440 kg	440 kg	440 kg
	with Sliding Door	494 kg	494 kg	494 kg
	with Sliding Door and tilt	546 kg	546 kg	546 kg
	Heating unit	39 kg	50 kg	42 kg
	Tilting unit	66 kg	66 kg	66 kg
Cylinder:	Diameter	1240 mm	1240 mm	1240 mm
	Depth	770 mm	770 mm	770 mm
	Revolutions per minute	38 rpm	38 rpm	38 rpm
Capacity:		45 kg	45 kg	45 kg
Heat effect:	Gas heating	64 kW		
	Steam heating		Depending upon steam pressure	
	Electric heating			48 / 60 kW
Air consumption:		Max. 2300 m^3/h	Max. 2300 m^3/h	Max. 2300 m^3/h
Piping:	Exhaust duct	Ø 315 mm	Ø 315 mm	Ø 315 mm
	Gas connection	ISO 7/1 - R1		
	Steam in		ISO 228/1 - G1	
	Steam out		ISO 228/1 - G1	
Pressure drop:		max. 100 Pa	max. 100 Pa	max. 100 Pa
Gas pressure:	See page regarding pressure			
Sound pressure level:		< 70 dB (A)	< 70 dB (A)	< 70 dB (A)

Technical data - type T41200

Heating		Gas	Steam	Electric
Cylinder volume:		1200 litres	1200 litres	1200 litres
Weight net:	Basic machine	470 kg	470 kg	470 kg
	with Sliding Door	524 kg	524 kg	524 kg
	with Sliding Door and tilt	576 kg	576 kg	576 kg
	Heating unit	46 kg	50 kg	42 kg
	Tilting unit	66 kg	66 kg	66 kg
Cylinder:	Diameter	1240 mm	1240 mm	1240 mm
	Depth	1000 mm	1000 mm	1000 mm
	Revolutions per minute	38 rpm	38 rpm	38 rpm
Capacity:		60 kg	60 kg	60 kg
Heat effect:	Gas heating	82 kW		
	Steam heating		Depending upon steam pressure	
	Electric heating			60 / 72 kW
Air consumption:		Max. 3000 m^3/h	Max. 3000 m^3/h	Max. 3000 m^3/h
Piping:	Exhaust duct	Ø 315 mm	Ø 315 mm	Ø 315 mm
	Gas connection	ISO 7/1 - R1		
	Steam in		ISO 228/1 - G1	
	Steam out		ISO 228/1 - G1	
Pressure drop:		max. 100 Pa	max. 100 Pa	max. 100 Pa
Gas pressure:	See page regarding pressure			
Sound pressure level:		< 70 dB (A)	< 70 dB (A)	< 70 dB (A)

Technical data - motor specifications - T4900, T41200

Blower motor 3-phase:		
Effect:		1.1 kW
Revolutions per minute:	50 Hz	2800 rpm
	60 Hz	3400 rpm
Drum motor 3-phase:		
Effect:		1.5 kW
Revolutions per minute:	50 Hz	1440 rpm
	60 Hz	1730 rpm

Setup

Unpacking

Place the dryer in its place before unpacking it. When unpacking the dryer, handle it with care.

Positioning

Place the dryer in such a way that work can be done as easily as possible by the user and the service technician alike.

The distance to the wall or other equipment behind the dryer should be min. 500 mm.

However, there should be free access to the back of the dryer for the purpose of servicing it.

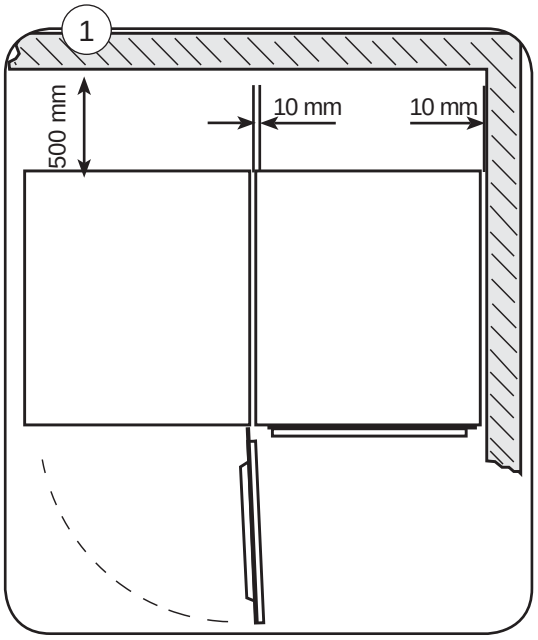


Fig. 1. Dryer with standard loading door

Apart from the minimum distances shown on fig. 1 there are no further requirements to the distance around the dryer.

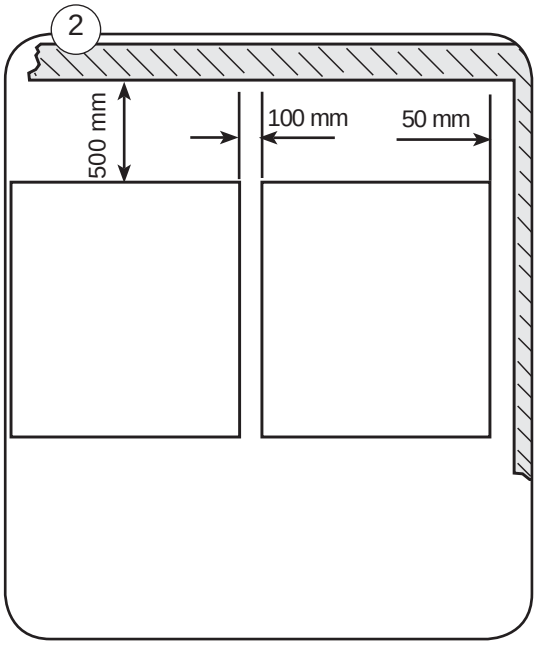


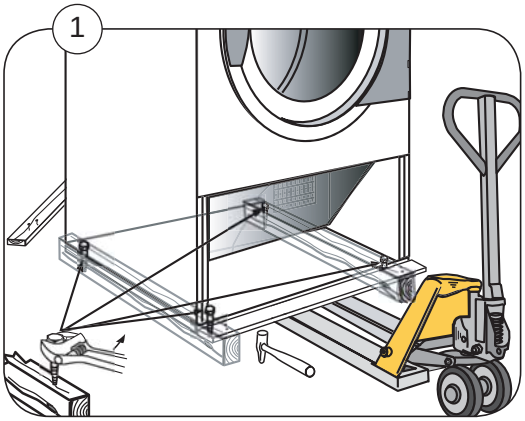
Fig. 2. Dryer with Sliding Door and tilt

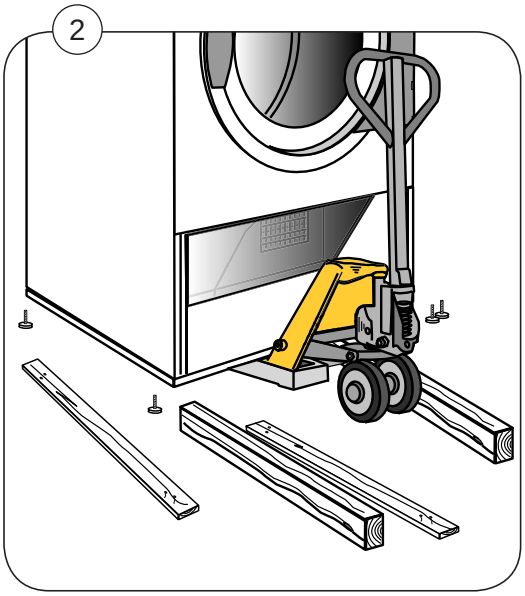
Apart from the minimum distances shown on fig. 2 there are no further requirements to the distance around the dryer.

Removal from transportation pallet

1. Demount back plates and filter door.
2. Knock the two wood boards loose, one in front and one in the back, with a hammer, fig. 1.
3. Demount the 4 screws holding the bars.
4. Lift the dryer with pallet truck or fork-lift truck and remove the bars.
5. Mount the four feet in the bottom bearers, fig. 2.
6. T41200 only.
   When pallet truck or fork-lift truck is removed the 2 steel sections are disengaged.

Remove steel sections and the remainder from transportation pallet.





Dryer with tilting function

Before installing the dryer follow the tilt installation manual.

Flexible piping connection, gas heated dryers

Fig. 1. Due to the tilting function gas pipe **A** must end 30 cm before the dryer and the last piece of it must be flexible eg. an approved 60 cm gas hose.

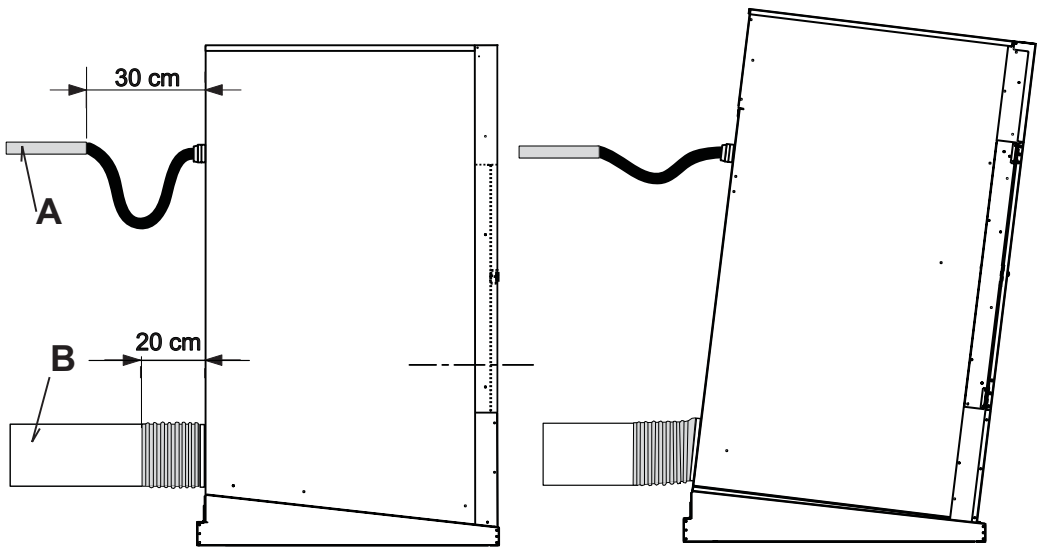
Flexible piping connection, steam heated dryers

Due to the tilting function the steam hoses must have an excessive length of 30 cm.

Outlet duct, all heating types

Fig. 1. Due to the tilting function the outlet duct **B** must have a flexible hose 20 cm before the dryer.

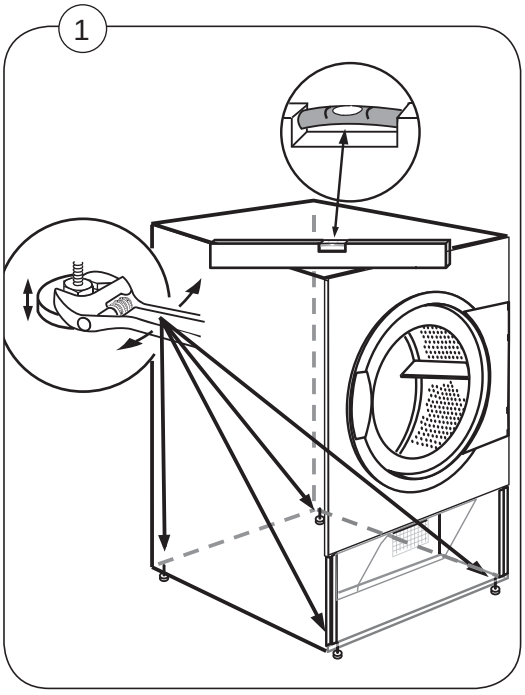
1



Mechanical installation

Adjust the dryer to ensure that it is horizontal and stands firmly on all four feet (the height adjustment must be as low as possible), fig. 1.

The maximum height adjustment of the feet is 70 mm and is only to be used cautiously while removing lifting truck or fork truck.



Heating unit

The heating unit is to be mounted on top of the dryer.

During transport the top plate for the heating unit is placed on top of the dryer.

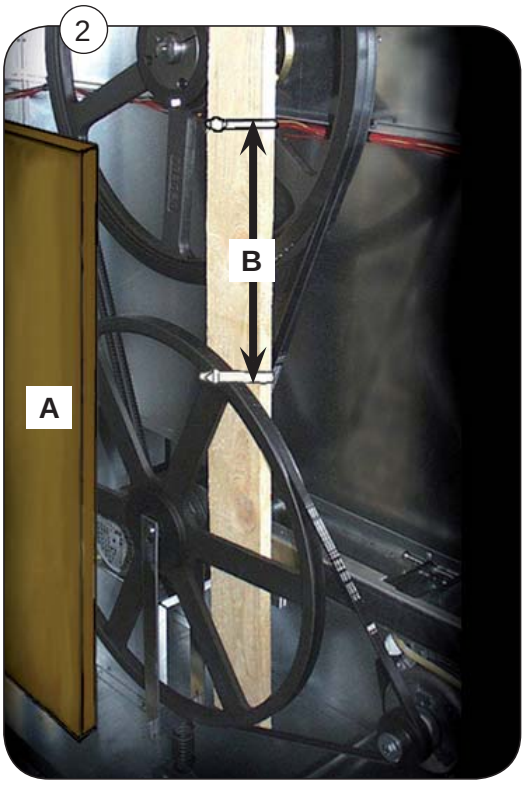
Equally during transport the two side panels and the bracing bar **A** are placed in the back of the dryer, fig. 2.

See the installation manual for the heating unit.

Transportation fittings

During transport the transmission is secured.

Remove the transportation securing **B** by cutting the strips, fig. 2.



Exhaust system

Air principle

The blower creates low pressure in the dryer, drawing air into the cylinder via the heating unit.

The heated air passes through the garments and the cylinder vents.

The air then flows out through a lint filter positioned immediately below the drum. After this, the air is evacuated through the blower and exhaust system, fig. 1.

It is very important that the dryer gets enough fresh air, see next section.

Fresh-air

For maximum efficiency and the shortest possible drying time, it is important to ensure that fresh air is able to enter the room from the outside in the same volume as that blown out of the room.
To avoid a draught in the room, it is advisable to place the air inlet behind the dryer.
The area* of the air inlet opening must be 5 times the size of the exhaust pipe area, fig. 2.

See table on the following page.

The resistance in the grating/slats on the air inlet cover plate should not exceed 10 Pa (0.1 mbar).

The air consumption is maximum:

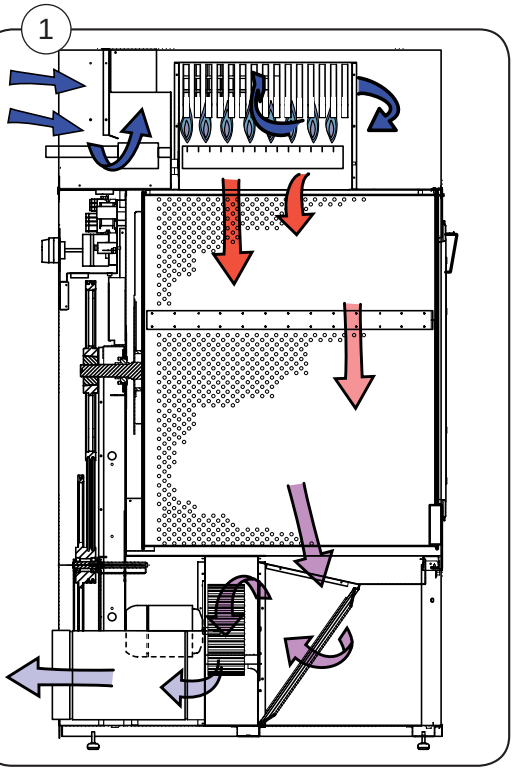
T4900: 2300 m^3/h.

T41200: 3000 m^3/h.

Note! Gratings/slatted covers often block half of the total fresh air vent area. Remember to take this into account, fig. 3.

*The area of the inlet opening is the area through which the air can flow without resistance from grating/slatted cover.

1



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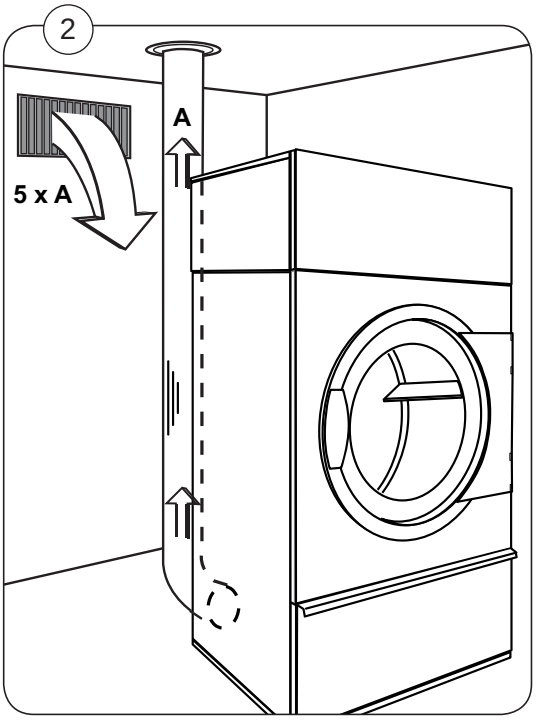

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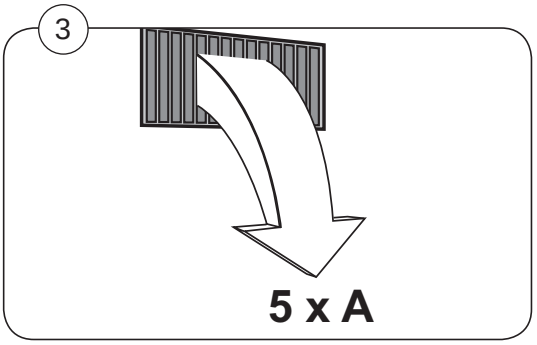


Exhaust system

Exhaust duct

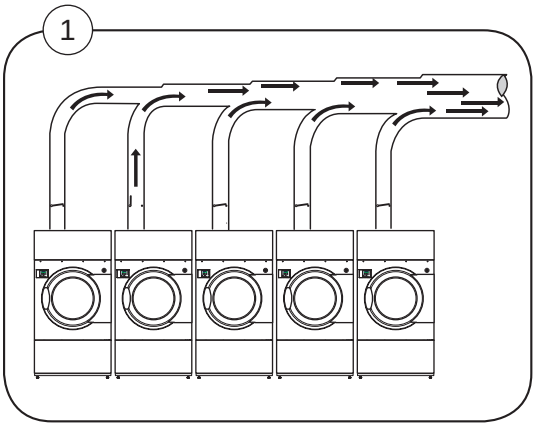
It applies to the exhaust duct that:

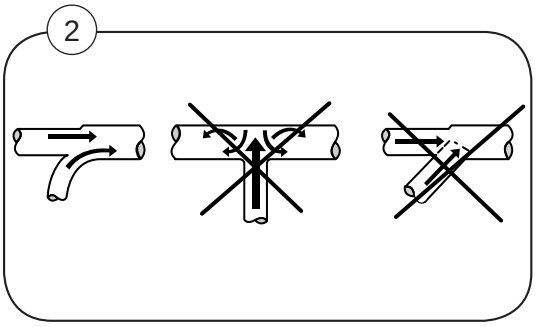
- The exhaust duct must be smooth on the inside (low air resistance).
- The exhaust duct must lead into the open.
- The exhaust duct must lead clear of the building as condensation may cause frost damage to the building.
- The exhaust duct must be protected against rain and foreign objects.
- The exhaust duct must have gentle bends, fig. 2.
- The exhaust duct must not be a shared duct between dryers and appliances using gas or other fuels as their energy source.

It applies to the installation of several dryers on a shared exhaust duct that:

- The exhaust duct diameter must increase after each dryer, fig. 1.
  The table below shows the exhaust duct diameter and the necessary fresh-air inlet area.
- The exhaust duct must have a nonreturn flap after each dryer.

Note! It is recommended that each dryer is connected to a separate exhaust duct.





Service organization/dealer

If you have questions relating to the design of the exhaust system, please contact your local dealer or service organization.

The exhaust duct diameter must not be reduced.

No. of dryers	1	2	3	4	5	6	7	8
Air outlet pipe diameter in mm	315	450	560	630	710	800	800	900
Required area of fresh-air inlet in m^2	0.4	0.8	1.2	1.6	2.0	2.4	2.8	3.2

Each dryer requires a fresh-air aperture of min. 624 x 624 mm

Steam installation

Before start

The steam supply must be cut off and must not be under pressure.

Steam

Steam 3-10 bar absolute pressure (130 - 180°C).

Steam forward

1. The branch pipe's branch must be located at the top of the main steam pipe to prevent condensation in the steam.
2. The branch pipe must have a descending gradient and must end at a height above the inlet connecting branch (D).
3. Mount a shut-off valve (a) and a strainer (b) in the branch pipe, fig. 1.

Condensation return

1. It is important that the branch pipe for condensed water on return to the main condensate pipe has a descending gradient and is lower than the outlet connecting branch (E).
2. Mount a strainer (b) in the return pipe.
3. Mount a steam trap behind the dirt collector (c).
4. Then mount a shut-off valve (a).
5. Mount pressure hoses between branch pipes and dryer (hoses are not supplied), fig. 1.
6. The pressure hoses must not hang down, fig. 2.

Leak test

1. Leak test the system.
2. Clean the dirt collectors (b).

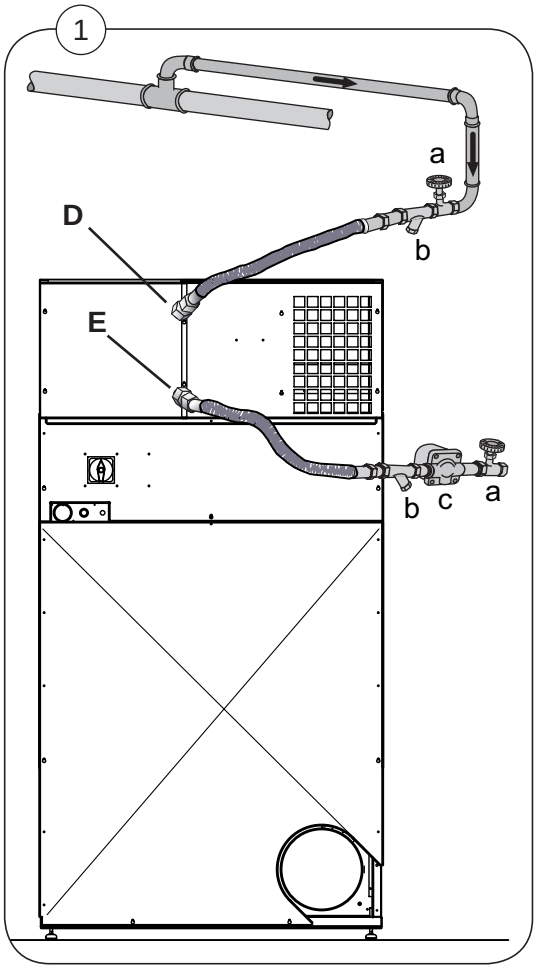
Function check

The function check is described in the back of this manual.

Pipe insulation

All pipes must be insulated in order to reduce risk of burning. Insulation also reduces loss of heat to the surroundings.

1



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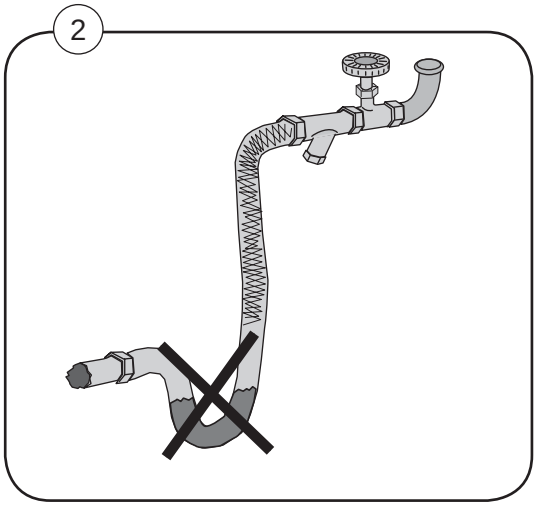


Note
Before installing dryer with tilt see section "Dryer with tilting function".

Gas installation

To be carried out by qualified personnel

Install a manual gas shutoff valve upstream from the dryer.

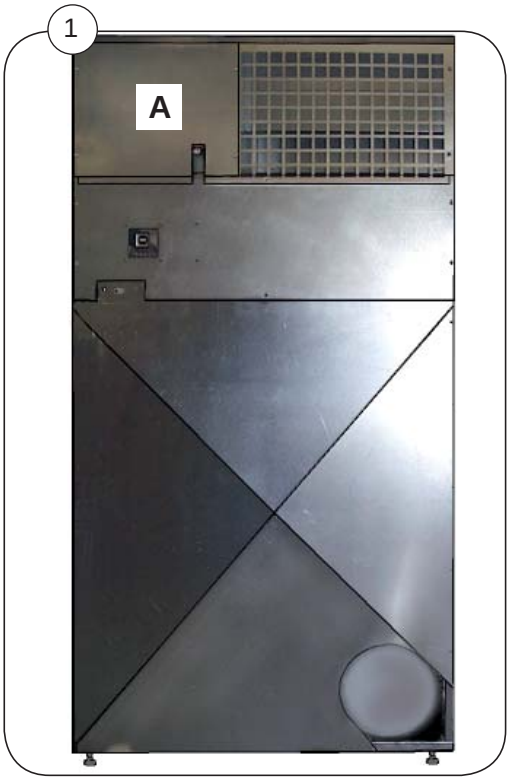
The gas connection to the dryer should be dimensioned to an output depending upon the kW-rating of the dryer.

The factory nozzle pressure setting must correspond to the fuel value given on the data label.

Check that the nozzle pressure and fuel value agree with the values given in the table. If not, contact your gas supplier.

Bleed the pipe system before connecting the dryer.

After connection, test all joints for leaks.



Test run

Note! To ensure the correct amount of air to the combustion, plate A must be mounted before starting the dryer.

Loosen the measuring branch screw (2) 1/4 of a turn.

Connect a manometer to the measuring branch (2), (See page regarding gas valve).

Fill garments into the drum.

Select a programme that uses heat.

Start the dryer.

Check the nozzle pressure, see table.

If necessary, adjust the setting screw (4) of the regulator under the cover screw (3).

Check that the gas is burning evenly and with a bluish flame.

Function check

The function check is described in the back of this manual.

Note
Before installing dryer with tilt see section “Dryer with tilting function”.

Gas installation

Converting to bottled gas / natural gas

If the dryer is to be converted to another gas type, the gas nozzles must be replaced.

1. Remove nozzles (pos.1).
2. Mount the supplied nozzles.
3. Dismount plate with ignition electrode (pos. 7).
4. Carefully dismount flame sensor (pos. 8).
5. T41200: Dismount both cover plates (pos. 9+10).
6. T41200: Mount the supplied cover plates.
7. Remount pos. 7 and pos. 8.

Mount the heating unit on the dryer as described in the installation manual for the heating unit.

The numbers in brackets refer to the page regarding the gas valve.

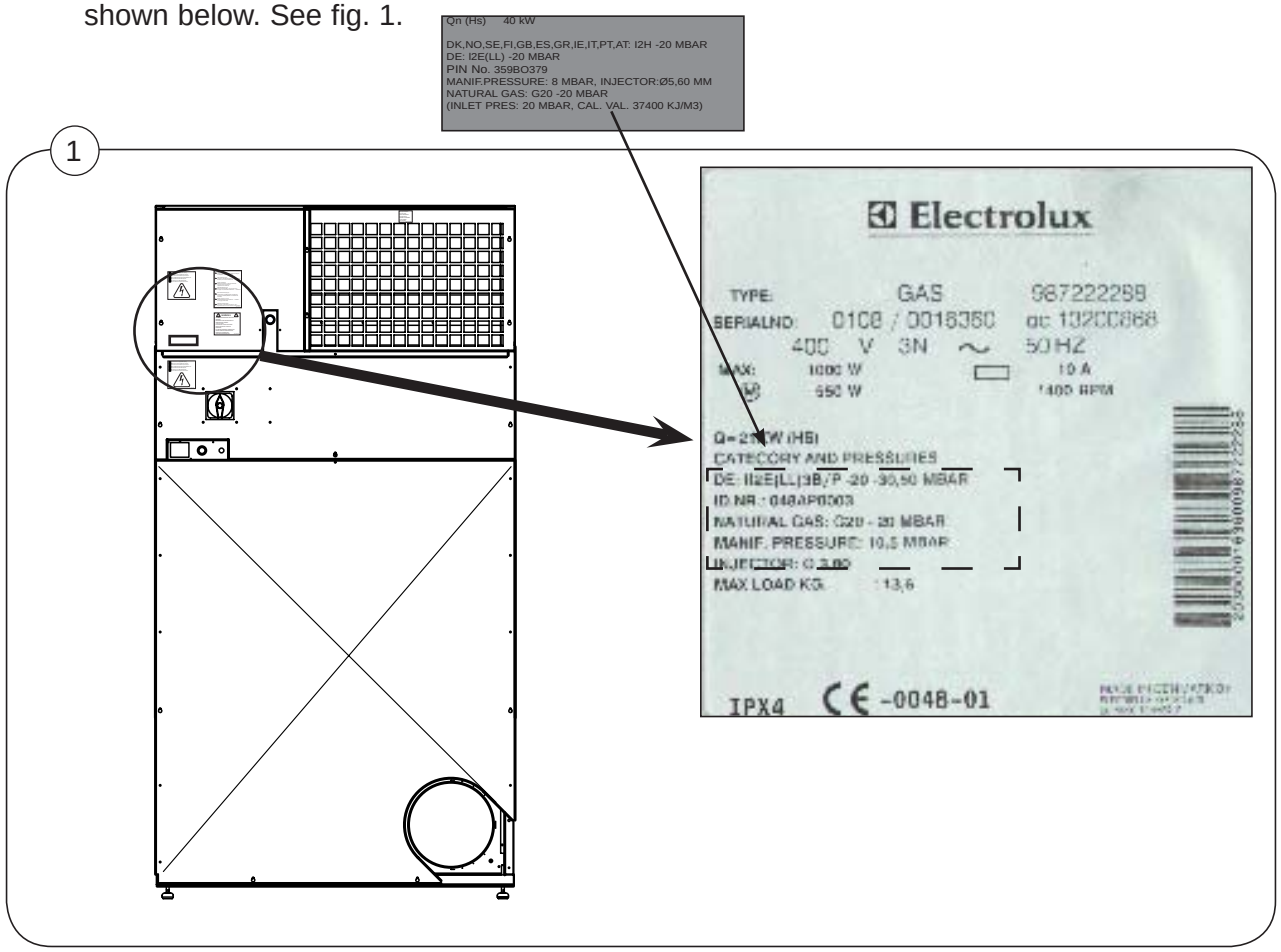
Test run

Re. test run see earlier in this section.

Affixing the sign

Place the label with the right country code on the gas label as shown below. See fig. 1.

1



Gas installation

Table of pressures and adjustments

Heat effect: 64 kW

Note
Because of the differences in gas installation regulations in European Union it is important to use the Italian-language manual in Italy and the French-language manual in France ect.

T4900	a	b mbar	c mbar	d mm
Denmark (DK) Norway (NO) Sweden (SE) Finland (FI)	LPG GNH GNL GT	28-30 20	28-30 8.0	2.90 5.00
Italy (IT) England (GB) Spain (ES) Portugal (PT) Ireland (IR) Greece (GR)	LPG GNH GNL GT	28-30 / 37 20	28-30 / 37 8.0	2.90 5.00
France (FR) Belgium (BE)	LPG GNH GNL GT	28-30 / 37 20 / 25 20 / 25	28-30 / 37 20 / 25 20 / 25	2.90 4.00 4.00
Germany (DE)	LPG GNH GNL GT	30 , 50 20 20	30 8.0 8.0	2.90 5.00 5.50
Holland (NL)	LPG GNH GNL GT	28 - 30 20 25	30 8.0 8.0	2.90 5.00 5.50
Austria (A)	LPG GNH GNL GT	50 20	30 8.0	2.90 5.00
The rest of the world except: Australia, USA, New Zealand	LPG GNH GNL GT	30 18 18	30 8.0 8.0	2.9 5.0 5.5

a=Gas type

b=Connection pressure

c=Nozzle pressure

d=Nozzle

Gas installation

Table of pressures and adjustments

Heat effect: 82 kW

Note
Because of the differences in gas installation regulations in European Union it is important to use the Italian-language manual in Italy and the French-language manual in France ect.

T41200	a	b mbar	c mbar	d mm
Denmark (DK) Norway (NO) Sweden (SE) Findland (FI)	LPG GNH GNL GT	28-30 20	28-30 8.0	3.30 5.65
Italy (IT) England (GB) Spain (ES) Portugal (PT) Ireland (IR) Greece (GR)	LPG GNH GNL GT	28-30 / 37 20	28-30 / 37 8.0	3.30 5.65
France (FR) Belgium (BE)	LPG GNH GNL GT	28-30 / 37 20 / 25 20 / 25	28-30 / 37 20 / 25 20 / 25	3.30 4.70 4.70
Germany (DE)	LPG GNH GNL GT	30 , 50 20 20	30 8.0 8.0	3.30 5.65 6.30
Holland (NL)	LPG GNH GNL GT	28 - 30 20 25	30 8.0 8.0	3.3 5.65 6.30
Austria (A)	LPG GNH GNL GT	50 20	30 8.0	3.3 5.65
The rest of the world except: Australia, USA New Zealand	LPG GNH GNL GT	30 18 18	30 8.0 8.0	3.3 5.65 6.30

a=Gas type

b=Connection pressure

c=Nozzle pressure

d=Nozzle

Gas installation

Gas valve

1. Nozzle

2. Measuring tap, nozzle pressure

3. Cover screw

4. Adjusting screw

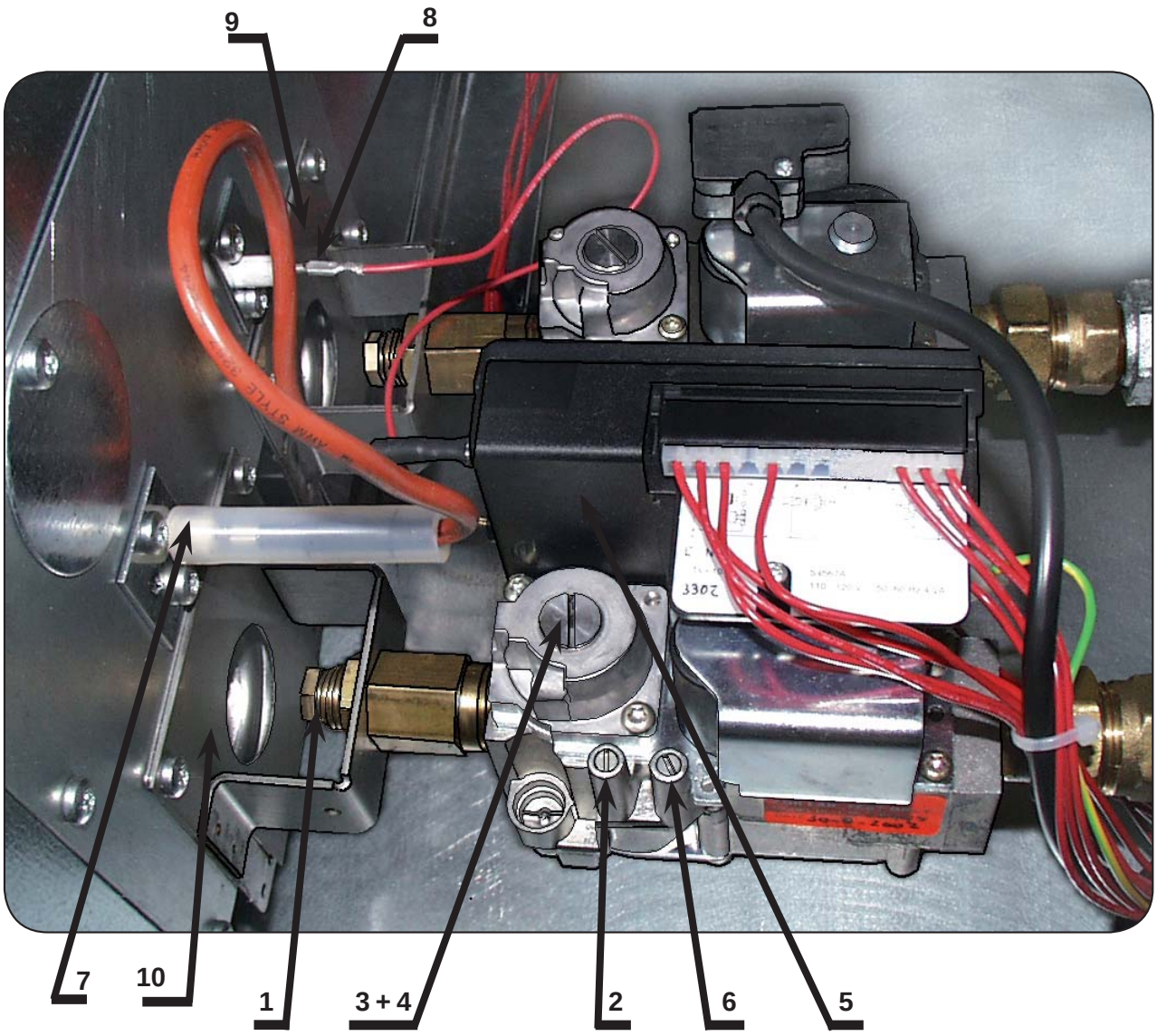
5. Controlbox, gasvalve

6. Measuring tap, supply pressure

7. Ignition electrode

8. Flame sensor

9+10. Cover plates



Electric installation

To be carried out by qualified personnel

The tumble dryer must be connected to its own fuse group / circuit breaker group and main switch according to IEC 60947.

Cable dimension

For calculation of the connection cable dimension, please refer to local guidelines.

Connecting the cable

1. Demount back plate **C** with supply disconnector grip, fig. 1.
2. Lead cable through the cable gland to the supply disconnector, fig. 2.
3. Connect cable as illustrated. If there is a neutral conductor it must be connected to terminal N, fig. 3.

Wiring diagrams

Wiring diagrams for all heating types are enclosed the drum.

Wiring diagrams for the specific dryer are in plastic bag **D.**

Circuit breaker / effect

The sizes of the circuit beaker and the effect are shown on the following page.

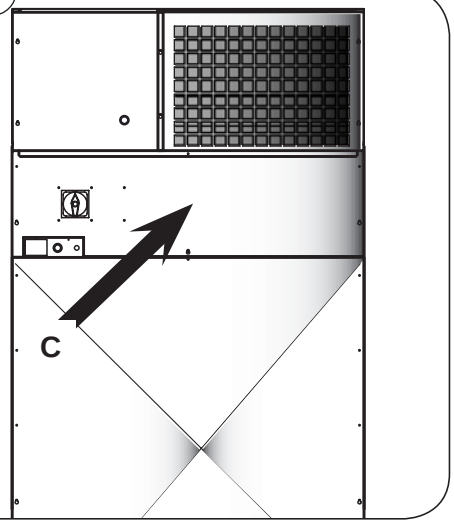
Function check

The function check is described in the back of this manual.

(NB: Correct direction of rotation is important!)

The tumble dryer must be equipped with supplementary protection in accordance with heavy current regulations.

1



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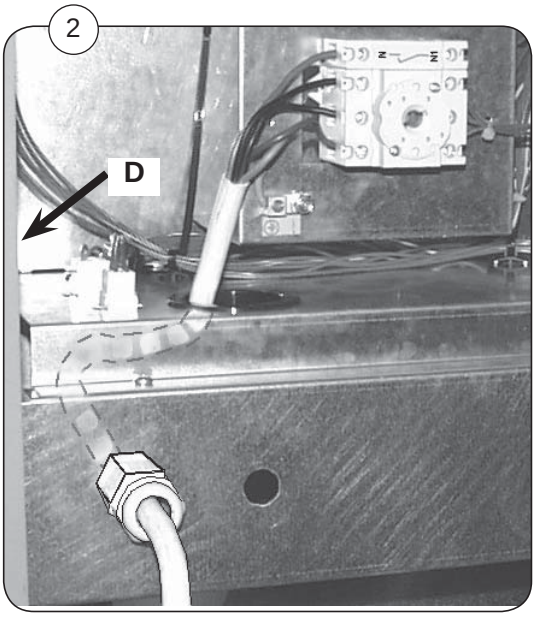

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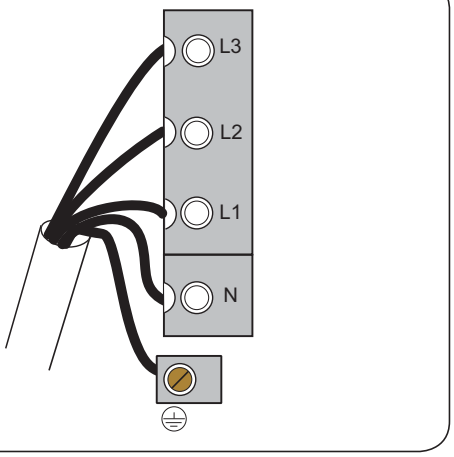


Electric installation - Type T4900

Heating	Voltage		Heat effect kW	Motor effect kW	Max. effect kW	Fuse size A
Gas	200 / 230 / 240V	3AC 50/60Hz	64	1) 1.1 2) 1.5	3.3	20
	400 / 415V	3AC 50Hz	64	1) 1.1 2) 1.5	3.3	16
	400 / 415 / 440 / 480V	3AC 60Hz	64	1) 1.1 2) 1.5	3.3	16
Steam	200 / 230 / 240V	3AC 50/60Hz	3)	1) 1.1 2) 1.5	3.3	20
	400 / 415V	3AC 50Hz	3)	1) 1.1 2) 1.5	3.3	16
	400 / 415 / 440 / 480V	3AC 60Hz	3)	1) 1.1 2) 1.5	3.3	16
Electric	230 / 240V	3AC 50/60Hz	48	1) 1.1 2) 1.5	51	160
	400 / 415V	3AC 50Hz	48	1) 1.1 2) 1.5	51	80
	400 / 415 / 440 / 480V	3AC 60Hz	48	1) 1.1 2) 1.5	51	80
	400 / 415V	3AC 50Hz	60	1) 1.1 2) 1.5	63	100
	400 / 415 / 440 / 480V	3AC 60Hz	60	1) 1.1 2) 1.5	63	100

1) = Blower motor

2) = Drum motor

3) = Depending upon steam pressure

Electric installation - Type T41200

Heating	Voltage		Heat effect kW	Motor effect kW	Max. effect kW	Fuse size A
Gas	200 / 230 / 240V	3AC 50/60Hz	82	1) 1.1 2) 1.5	3.3	20
	400 / 415V	3AC 50Hz	82	1) 1.1 2) 1.5	3.3	16
	400 / 415 / 440 / 480V	3AC 60Hz	82	1) 1.1 2) 1.5	3.3	16
Steam	200 / 230 / 240V	3AC 50/60Hz	3)	1) 1.1 2) 1.5	3.3	20
	400 / 415V	3AC 50Hz	3)	1) 1.1 2) 1.5	3.3	16
	400 / 415 / 440 / 480V	3AC 60Hz	3)	1) 1.1 2) 1.5	3.3	16
Electric	400 / 415V	3AC 50Hz	60	1) 1.1 2) 1.5	63	100
	400 / 415 / 440 / 480V	3AC 60Hz	60	1) 1.1 2) 1.5	63	100
	400 / 415V	3AC 50Hz	72	1) 1.1 2) 1.5	75	125
	400 / 415 / 440 / 480V	3AC 60Hz	72	1) 1.1 2) 1.5	75	125

1) = Blower motor

2) = Drum motor

3) = Depending upon steam pressure

To be carried out by qualified personnel

Function check

Check that the drum is empty and the door has been closed.

Checking the magnet switches

Start the dryer.

Check if the magnet switches are working properly:

- The dryer **must** stop if the loading door is opened.
- The dryer **must** stop when the filter door is opened.

Correct direction of rotation

Correct direction of rotation on blower wheel: **The blower wheel must rotate clockwise, fig. 1.**

If the direction of rotation is not correct, swop two phases on the connection terminal.

Final test

Heat: Let the dryer work for 5 minutes on a program that requires heat.

Then check whether the heating is working by opening the door and feeling the heat.

Only dryers with tilting function: It is important to test the tilt function at the end.

Only dryers with Sliding Door: Sliding Door must be capable of being opened with a force of max 10 kg / 98N, fig. 2.

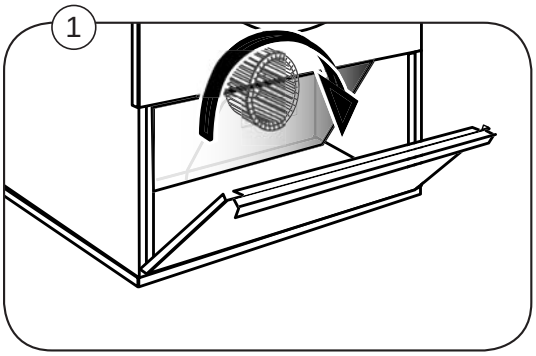
If the above tests-points are in order, the dryer is ready for use.

Please instruct user in correct operating procedure before leaving.
Please hand all instructions to user.

Service organisation / dealer

If deficiencies or errors are detected, please contact your local service organisation / dealer.

1



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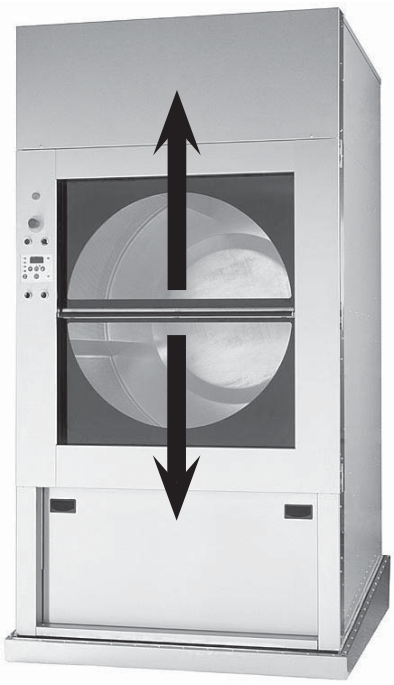
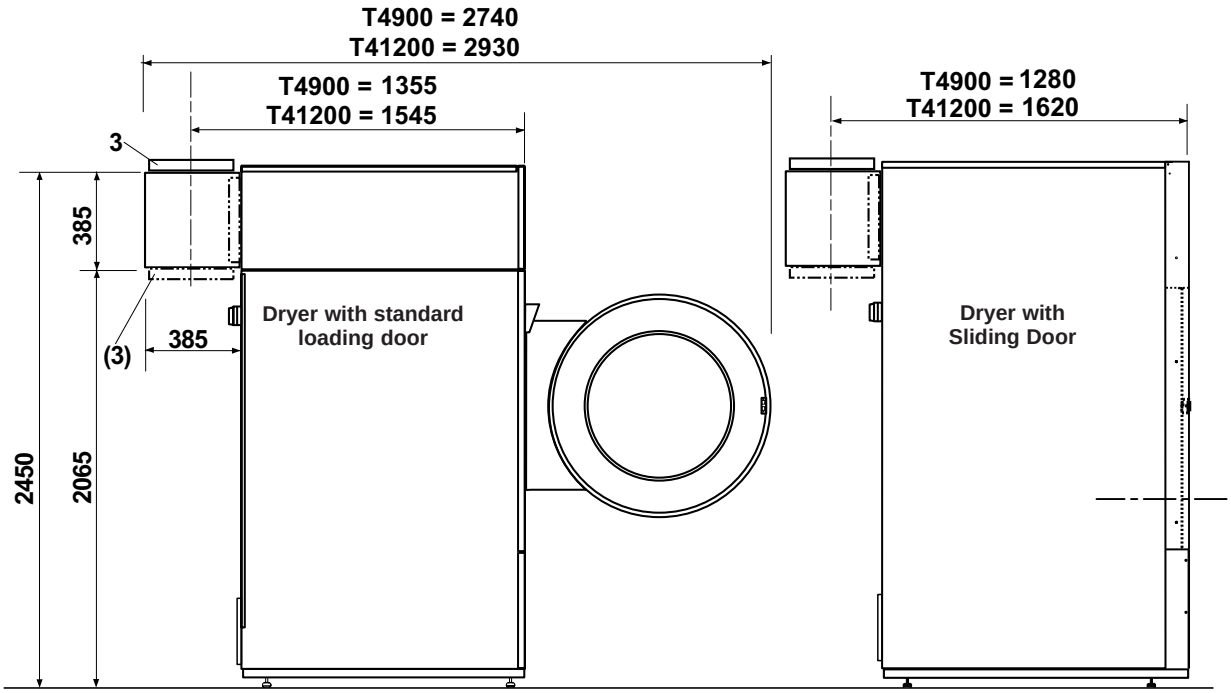
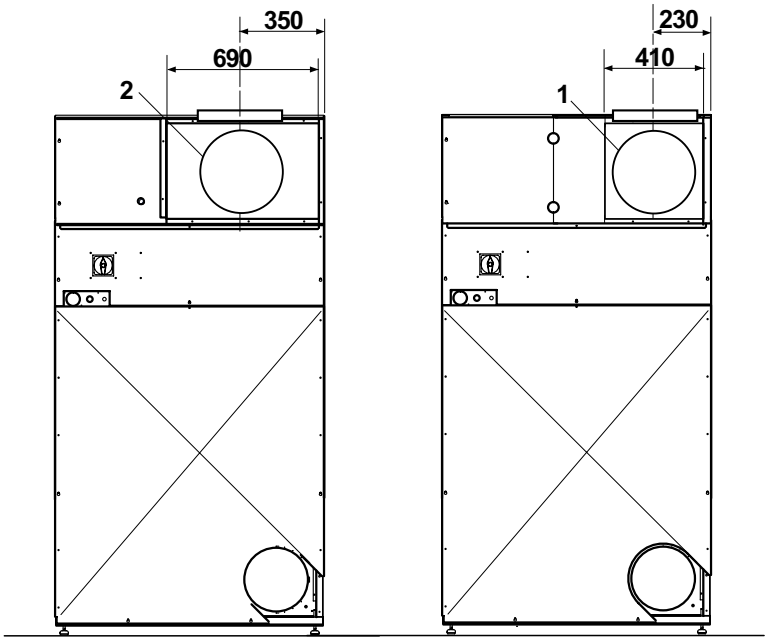


Dimension sketch - Adaptor for direct fresh-air intake

1	Adaptor kit no. 988 800 0003 - Steam heated dryers
2	Adaptor kit no. 988 800 0004 - Gas and electric heated dryers
3	Connecting branch in top / bottom for fresh-air intake, diameter Ø 315 mm





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